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Title: METHODS OF TREATING ALLERGIC AND ASTHMATIC DISORDERS USING IMMUNOSTIMULATORY OLIGONUCLEOTIDES

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Table 2. Identification of the optimal CpG motif for Murine IL-6 production and B cell activation.

ODN	SEQUENCE (5'-3')	IL-6 (pg/ml) ^a				SI ^b	IgM (ng/ml) ^c
		CH12.LX	SPLENIC B CELL				
512 (SEQ ID No:28)	TCCATGTCGGTCTCTGATGCT	1300 ± 106	627 ± 43			5.8 ± 0.3	7315 ± 1324
1637 (SEQ ID No:33)	.....C.....	136 ± 27	46 ± 6			1.7 ± 0.2	770 ± 72
1615 (SEQ ID No:34)	.....G.....	1201 ± 155	850 ± 202			3.7 ± 0.3	3212 ± 617
1614 (SEQ ID No:35)	.....A.....	1533 ± 321	1812 ± 103			10.8 ± 0.6	7558 ± 414
1636 (SEQ ID No:36)	.....A.....	1181 ± 76	947 ± 132			5.4 ± 0.4	3983 ± 485
1634 (SEQ ID No:37)	.....C.....	1049 ± 223	1671 ± 175			9.2 ± 0.9	6256 ± 261
1619 (SEQ ID No:38)	.....T.....	1555 ± 304	2908 ± 129			12.5 ± 1.0	8243 ± 698
1618 (SEQ ID No:7)	.....A..T.....	2109 ± 291	2596 ± 166			12.9 ± 0.7	10425 ± 674
1639 (SEQ ID No:3)	.....AA..T.....	1827 ± 83	2012 ± 132			11.5 ± 0.4	9489 ± 103
1707 (SEQ ID No:39)	.....A..TC.....	ND	1147 ± 175			4.0 ± 0.2	3534 ± 217
1708 (SEQ ID No:40)	.....CA..TG.....	ND	59 ± 3			1.5 ± 0.1	466 ± 109

Dots indicate identity; CpG dinucleotides are underlined; ND= not done

^aThe experiment was done at least three times with similar results. The level of IL-6 of unstimulated control cultures of both CH12.LX and splenic B cells was ≤ 10 pg/ml. The IgM level of unstimulated culture was 547 ± 82 ng/ml. CpG dinucleotides are underlined and dots indicate identity.

^b[³H] Uridine uptake was indicated as a fold increase (SI: stimulation index) from unstimulated control (2322.67 ± 213.68 cpm). Cells were stimulated with 20 μM of various CpG O-ODN. Data present the mean ± SD of triplicates

^cMeasured by ELISA.